3~10/5/12-C
DOCUMENT ROUTING FORM
NAME OF DOCUMENT: Kimley-Horn and Associates Task Order #24 - \$191,660 – FXE Design Services for the Pavement Rehabilitation & Replacement of Airfield Lighting Taxilane Charlie
Approved Comm. Mtg. on SEPTEMBER 18, 2012 CAR# 12-2022 ITEM: XM-
Routing Origin: 🖾 CAO 🛛 ENG. 🗌 COMM. DEV. 🗍 OTHER
Also attached: 🛛 copy of CAR 🖾 copy of document 🗌 ACM Form 🖾 3 originals
By: <u>LB</u> forwarded to: BARBARA HOWELL, ENGINEERING Initials
1.) Approved as to Content: Department Director Department Director Capital Improvements defined as having a life of at least 10 years and a cost of at least \$50,000 and shall mean improvements to real property (land, buildings, fixtures) that add value and/or extend useful life, inc. major repairs such as roof replacement, etc. Term "Real Property"
Please Check the proper box: CIP FUNDED YES NO Capital Improvement Plojects
2.) Approved as to Funds Available: by Leve work book ju Date: 9/20/12
Finance Director # 38, 332 P11749.468 Amount Required by Contract/Agreement \$ 191, (alc 0 Funding Source: 153, 328 P11749.468/A
Dept./Div. <u>PBS/ENG</u> Index/Sub-object <u>6599</u> Project # <u>P.11749</u>
BSO PO# PP121835 9
3.) City Attorney's Office: Approved as to Form:# Originals to City Mgr. By: CARRIE SARVER
Carrie Sarver
4.) Approved as to content: Assistant City Manager:
By: By: Stanley Hawthorne, Assistant City Manager Susanne Torriente, Assistant City Manager
5.) Acting City Manager: Please sign as indicated and forward a originals to Mayor.
6.) Mayor: Please sign as indicated and forward 4 originals to Clerk.
7.) To City Clerk for attestation and City seal. 12 SEP 21 AM11:33
INSTRUCTIONS TO CLERK'S OFFICE
 8.) City Clerk: retains one original document and forwards original documents to BARBARA HOWELL Copy of document to Original Route form to Linda Blanco, CAO Attach certified copies of Reso. # Fill-in date

TASK ORDER No. 24 Dated this _____ day of <u>September</u>, 2012

CITY PROJECT No. 11749

FORT LAUDERDALE EXECUTIVE AIRPORT DESIGN SERVICES FOR THE PAVEMENT REHABILITATION & REPLACEMENT OF AIRFIELD LIGHTING TAXILANE CHARLIE WEST OF 13-31

Describing a specific agreement between the City of Fort Lauderdale (CITY) and Kimley-Horn and Associates, Inc. (CONSULTANT or KHA) in accordance with the terms of the agreement for professional services dated May 5, 2009 between CITY and CONSULTANT ("MASTER AGREEMENT") and amended and extended to May 4, 2013 by City Commission approval at its meeting on April 17, 2012.

PROJECT BACKGROUND

This project is for rehabilitating the existing airfield pavement along Taxilane Charlie from the nonmovement line at Taxiway Bravo, west to its termination point. As part of this project approximately 1300 linear feet of Taxilane Charlie will be rehabilitated. The PCI values for this portion of Taxilane Charlie were below a PCI of 55. The taxilane shows signs of alligator cracking, depressions, swelling, transverse and longitudinal cracking, and weathering and raveling. Asphalt pavement cores will be conducted on the pavement to determine the depth of the cracks and the damage to the underlying layers to conclude if the pavement can be milled and overlaid or if full depth reconstruction is needed.

As part of the Taxilane Charlie rehabilitation the existing edge lights along the taxilane will be replaced with LED edge lights.

SPECIFIC SCOPE OF SERVICES

The project requires professional engineering services for design of the pavement rehabilitation for Taxilane Charlie to include milling and paving, pavement markings, lighting and associated work. Services shall include the following tasks:

Task 1.0 Pre-design Services

During this task, CONSULTANT shall develop a construction phasing plan and preliminary typical sections for the taxilane rehabilitation, undertake preliminary coordination, define the necessary pre-design field survey and geotechnical investigation, and will establish communications with the parties and agencies known to CONSULTANT that will be involved or affected by the project. Specific tasks shall consist of the following:

- 1. Meet with the CITY to fully define project elements, phasing requirements, and project issues. This will be considered the pre-design meeting with the CITY.
- 2. Coordinate and administer early sub-consultant services.

- 3. Field review project site.
- 4. Review existing plans and data.
- 5. Define and list design criteria applicable to the project.
- 6. Define topographic survey limits, and obtain those surveys (see Task 6.0 Special Services).
- 7. Recover and restore base mapping of underground facilities from previous projects (if any).
- 8. Define geotechnical investigation limits and requirements, and obtain those investigations (see Task 6.0 Special Services).
- 9. Develop preliminary phasing plans.
- 10. Meet with City to review phasing options, MOT, construction access, and staging options.
- 11. Based on selected phasing options, prepare an order of magnitude Opinion of Probable Construction Cost for the project.
- 12. Establish the schedule for and conduct weekly in-house design meetings.
- 13. Establish the schedule for and conduct monthly review and coordination meetings with the CITY.
- 14. Establish the Quality Control program for the services being provided and QC the services of this phase.
- 15. Provide administration for the services including monthly reports, subconsultant coordination, record keeping, and invoicing.

CONSULTANT shall provide as many as two copies each of the following for CITY review and written approval:

- Design criteria listing
- Preliminary horizontal alignment
- Phasing alternatives
- Preliminary access, MOT and staging plan
- Preliminary Opinion of Probable Cost

Task 2.0 Conceptual Design (30% Plans)

This task consists of the fieldwork, functional layouts, and preliminary plan development necessary to achieve approximately 30% design completion for the project. Specific tasks shall consist of the following:

- 1. Prepare base mapping for the project.
- 2. Review field survey data, geotechnical reports, as-built drawings, and other available data.
- 3. Develop taxiway pavement geometry to 30% design level.
- 4. Prepare a preliminary pavement design and typical sections for the taxiway pavement and the shoulders based on the geotechnical investigation.
- 5. Prepare a taxiway grading concept and conceptual typical sections for grading.
- 6. Refine project phasing plan and define construction project limits by phase
- 7. Prepare a conceptual construction schedule.
- 8. Develop a construction safety plan concept.

- 9. Conduct weekly in-house design meetings.
- 10. Prepare construction drawings to approximately 30% completion
- 11. Prepare draft outline technical specifications and Engineer's Report.
- 12. Prepare an order of magnitude Opinion of Probable Construction Cost based on the 30% drawings.
- 13. Provide an independent Quality Assurance review for this phase.
- 14. Submit conceptual plans to the CITY for review.
- 15. Provide administration for the services including monthly reports, subconsultant coordination, record keeping, and invoicing.
- 16. Conduct up to one (1) concept design review and coordination meeting with the CITY.

CONSULTANT shall provide as many as two copies each of the following for CITY review and written approval:

- Construction drawings at approximately 30% completion (Electronic PDF Format)
- Outline of Technical Specifications and Engineering Report
- Conceptual construction schedule
- Order of Magnitude Opinion of Probable Construction Cost

Task 3.0 – Preliminary Design (60% Plans)

During this task, CONSULTANT will continue designs and contract documents to 60% completion, that consist of construction drawings, technical specifications, and engineering report. Tasks shall consist of the following:

- 1. Prepare Taxiway and connecting taxiway profiles.
- 2. Finalize pavement design and typical pavement sections.
- 3. Finalize grading concept and typical grading sections and details.
- 4. Develop proposed cross sections for the taxiway, including slopes for tie-in to existing grade.
- 5. Finalize pavement geometry and limits of pavement demolition.
- 6. Prepare preliminary edge lighting plans (Hillers Electrical Engineering, Inc.).
- 7. Develop phasing plans to 60%.
- 8. Prepare preliminary pavement marking plans.
- 9. Prepare Opinion of Probable Construction Cost based on 60% drawings.
- 10. Prepare construction safety plan with details and notes.
- 11. Develop construction plans to 60% completion.
- 12. Prepare draft-engineering report and technical specifications.
- 13. Provide Quality Control review of the services being provided.
- 14. Conduct weekly in-house design meetings.
- 15. Submit plans, bid documents, engineering report, and opinion of probable construction cost to the CITY for review and comment.
- 16. Conduct design meeting(s) with the CITY.
- 17. Provide administration for the services including monthly reports, subconsultant coordination, record keeping, and invoicing.

Deliverables for this task will consist of the following:

- Construction drawings at approximately 60% completion (Electronic PDF Format)
- Engineering Report and Technical Specifications one copy
- Opinion of Probable Construction Cost one copy

Task 4.0 - Contract Document Preparation (100% Plans)

During this task, CONSULTANT will complete designs and contract documents, to 100% completion, that consist of construction drawings, technical specifications, and engineering report. Tasks will consist of the following:

- 1. Finalize pavement marking layout plan.
- 2. Finalize lighting design (Hillers Electrical Engineering, Inc.).
- 3. Develop construction plans to 100% completion.
- 4. Finalize phasing plans and notes.
- 5. Finalize construction safety plan with details and notes.
- 6. Prepare a final quantity take off and opinion of probable construction cost.
- 7. Conduct a plan-in-hand field review of the construction plans.
- 8. Finalize the technical specifications and the engineering report. Incorporate review comments previously received.
- 9. Provide plans, construction documents, and certifications for the CITY to submit to FDOT for approval and authorization to advertise for bids.
- 10. Provide Quality Control review of the services being provided.
- 11. Provide administration for the services including monthly reports, record keeping, and invoicing.
- 12. Conduct up to one (1) design development meeting with the CITY.
- 13. Develop bid forms with final quantities.
- 14. Prepare supplemental provisions.

The anticipated sheets to be included in the construction drawings for each taxiway design are as follows:

Construction Set	Description
1	Cover Sheet / Location Plan / Vicinity Map
2	Index of Drawings / General Notes
3	Summary of Quantities
4	Access and Safety Plan, 1"=400'
5	Safety Plan Notes and Details
7-8	Project Phasing and Safety Plans, 1"=200'
9	Phasing Summary
10-11	Existing Conditions Plan, 1"=40', single panel
12-13	Typical Sections
14-15	Horizontal Geometry Plan, 1"=40'
16-17	Demolition Plan, 1"=40'
18-19	Grading and Drainage Plan, 1"=40'
20-21	Grading and Paving Details

22-23	Paving Plans with Elevations, 1"=40'
24-25	Taxiway Profiles, 1"=40', double panel
26-27	Pavement Marking Plan, 1"=40'
28-29	Pavement Marking Details
30-31	Cross Sections
32	Electrical Notes and Symbols
33-34	Electrical Demolition, Light Layout
35-38	Electrical Details & Schedules

Deliverables for this task will consist of the following:

- 100% completion
 - Plan sets (24" x 36") two sets, one set signed and sealed
 - Plan set (electronic, including plot files) CD containing CAD files of 100% plans and plot files in pdf format to verify conformance with current CITY CAD standards.
 - CD containing Bid Form Documents, Technical Specifications and Engineering Report
 - Engineering Report Two copies
 - Opinion of Probable Construction Cost Two copies

Task 5.0 - CAD Standards Review

During this task, CONSULTANT will complete CITY CAD standard review of the 100% construction drawings. Tasks will consist of the following:

- 1. Processing CAD files to conform to CITY CAD standards after receiving CAD review comments from the CITY.
- 2. Resubmit CAD drawings to the CITY with processed CAD review.

Deliverables:

Deliverables for this task will consist of the following:

- Plan set (electronic, including plot files) - CD containing CAD files of 100% plans and plot files in pdf in conformance with current CITY CAD standards.

Task 6.0 - Special Services

FIELD SURVEY AND MAPPING (Keith and Associates, Inc.)

This special service will provide up-to-date field mapping of the proposed project site. Keith and Associates, Inc., as a subconsultant, will perform Field survey to develop topographic base mapping for the project.

Survey limits for Taxilane Charlie will consist of approximately the non-movement line at the intersection with Taxiway Bravo to ramp at the west termination of Taxilane Charlie and a

varying width of 200 to 300 feet centered on the taxilane centerline, as well as areas for taxilane connectors to all ramps.

The following services will be provided:

- Set adequate project horizontal control and references. Establish baselines for the rehabilitated taxilane.
- Set project benchmarks.
- Perform a topographic survey within the survey limits to locate all above-ground features and all evidence of below-ground features.
- Obtain elevations within the survey limits using a 20-foot grid.
- Map the survey and provide files electronically and in signed and sealed hardcopy, in accordance with KHA requirements.
- Provide surfaces and contours

GEOTECHNICAL INVESTIGATION & MATERIALS TESTING (Tierra South Florida, Inc.)

Geotechnical investigation will be performed to confirm the existing pavement section of Taxilane Charlie as well as to establish the soil parameters for design of the rehabilitated taxilane pavement and taxilane connectors. Tierra South Florida, Inc., as a subconsultant, will provide the following services:

Field Investigation

- 8 cores through existing Taxilane Charlie pavement to determine pavement constituent thickness.
- Asphalt Extractions on core samples.
- Visual classification of the soils encountered below pavement cores
- Depth to ground water and estimated depth to seasonal high ground water
- 8 standard penetration test (SPT) borings to ten feet below existing grade to determine soil profile including layer thickness along the proposed taxiway alignment (one boring each 200 feet).

ELECTRICAL AND LIGHTING DESIGN (Hillers Electrical Engineering, Inc.)

Hillers Electrical Engineering, Inc. (HEE) will be retained by the CONSULTANT to conduct the electrical design services associated with Taxilane Charlie Pavement Rehabilitation.

The following items are included in our scope:

- Includes all CITY and CONSULTANT design coordination meetings.
- Includes as-build reviews & field verifications and assessment of existing conditions.
- Includes replacement of all existing quartz taxiway edge lighting within proposed project limits with new LED taxiway lighting fixtures elevated and flush. Also all transformers will be replaced to match new LED fixture specifications.
- Includes replacement of all existing quartz lamp signage within proposed project limits with new LED lamp signage. Also all transformers will be replaced to match new LED fixture specifications. Signage foundations will be replaced accordingly per existing conditions.

- Includes new airfield lighting & signage plans reflecting all edge in-pavement & elevated mounted lighting and signage installation details and plans layouts within project limits.
- Does not include any type of cable & conduit systems, base can installations, duct bank systems, airfield vault improvements, and signage beyond project limits.
- HEE shall provide electrical design (one-set) of reproducible drawings for 30%, 60%, 100% reviews, bid, and construction phases.
- Includes Electrical Calculations and Engineers Electrical Report.
- HEE shall provide all FAA specifications electrical bid line items and cost estimates.
- Provide Bid Package.

Task 7.0 –Bidding Phase Services

During this phase, CONSULTANT will assist the CITY during the advertising of the project. Upon receipt of authorization to advertise, CONSULTANT will do the following tasks:

- 1. Assist with one (1) pre-bid meeting with potential bidders and affected agencies.
- 2. Respond in writing to bidders questions.

PROJECT ASSUMPTIONS

- 1. Plans will be prepared on CAD overlays of the survey and will be in conformance with CONSULTANT'S AUTO CAD Civil3D 2011 CAD standards and in coordination with the CITY current CAD standards. The CONSULTANT shall work with the CITY to provide modifications to CAD standards to be used.
- 2. CONSULTANT will provide CADD files during 100% plan submittal only to verify conformance with current CITY CAD standards.
- 3. Technical specifications, the engineering report, and other written documents will be in Word. The engineering report will conform to the FAA format. Designs will be in accordance with FAA Regulations and Advisory Circulars, and will conform to FDOT guidelines.
- 4. Coordination with FAA and FAA documentation such as the FAA Construction Safety and Phasing Plan (CSPP), and the FAA Airport Development Safety Assessment Worksheet are not included in this scope.
- 5. The CITY will provide existing plan data and as-built drawings of utilities, fiber optic and previous construction plans as required for the project upon which the CONSULTANT may rely on.
- 6. There are no permit applications required for this project.
- 7. The construction phase services scope and fess will be defined during the final design phase, but shall require the CONSULTANT to administer the construction contract and provide partial construction phase services. Construction phase services are not included in this scope.

ADDITIONAL SERVICES

If authorized in writing by the City as an amendment to this Task Order, the Consultant shall furnish, or obtain from others, Additional Services of the types listed in Article 8 of the Master

Agreement. The City, as indicated in Article 7 of the Master Agreement, will pay for these services. Conversion of CITY supplied plans that are not in compliance with current CITY CAD standards and are to be incorporated into the work shall be considered additional services. Should additional stakeholder meetings be required, the meetings, meeting preparation, exhibit preparation and meeting documentation shall be considered as additional services.

PERFORMANCE SCHEDULE

The CONSULTANT shall perform the services identified in Tasks 1 through 7 inclusive within 120 working days of written Notice to Proceed.

PROJECT FUNDING

Performance of this project is at the CITY's discretion and may be contingent upon receipt by the CITY of funding from Federal Aviation Administration (FAA) and/or the Florida Department of Transportation (FDOT) under the applicable federal grant and/or Joint Participation Agreement (JPA), respectively, and work shall not begin until funding sources for this project are in place.

METHOD OF COMPENSATION

The services performed will be accomplished using the Not-to-Exceed method of compensation. Reimbursable expenses associated with these services will be itemized separately, subject to an established Not-to-Exceed limit. The total hourly rates payable by the CITY for each of CONSULTANT's employee categories, reimbursable expenses and sub-consultant fees are shown on Exhibit "A" attached hereto and made a part hereof.

TERMS OF COMPENSATION

Services will be provided for the following Not to Exceed amounts:

Description	<u>Labor</u>	Sub-consultants	<u>Totals</u>
Task 1	\$ 17,040.00		\$ 17,040.00
Task 2	\$ 30,285.00		\$ 30,285.00
Task 3	\$ 81,625.00		\$ 81,625.00
Task 4	\$ 18,080.00		\$ 18,080.00
Task 5	\$ 4,690.00		\$ 4,690.00
Task 6	\$ 0.00	\$ 32,215.00	\$ 32,215.00
Task 7	\$ 3,875.00		\$ 3,875.00
		N &	• • • • • • • •
Reimbursable Expenditures	(Not to Exceed	1) \$	\$ 3,850.00

Total

\$ 191,660.00

CLOSURE

All Provisions of the Master Agreement remain in full force and effect. IN WITNESS OF THE FOREGOING, the parties have set their hands and seal.

WITNESSES:

CITY OF FORT LAUDERDALE:

By______ JOHN P. "JACK" SEILER, Mayor

By

LEE R. FELDMAN, City Manager

Print Name

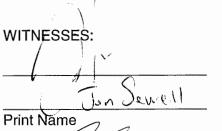
(SEAL)

ATTEST:

NDA K. JOSEPH, City Clerk

Approved as to form:

CARRIE L. SARVER, Assistant City Attorney





KIMLEY-HORN AND ASSOCIATES, INC.

CONSULTANT

By:
Name: David R. Bardt, P.E.
Title: Sr. Vice President
ATTEST:

By:_____

Name: Russell Barnes, P.E.

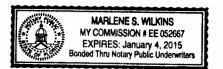
Title: Sr. Vice President



Print Name.

STATE OF FLORIDA: COUNTY OF PALM BEACH: *人 eon*

David R. Bardt and Russell Barnes as Sr. Vice President and Sr. Vice President respectively, of Kimley-Horn and Associates, Inc, acknowledged the foregoing instrument before me this $30 \neq 4$ day of $20 \neq 4$, 2012, on behalf of the corporation. They are personally known to me and did not take an oath.



mailen & Wilkin

Notary Public, State of Florida (Signature of Notary taking Acknowledgement)

Marlene S. Wilkins Name of Notary Typed, Printed or Stamped

1-4-15 My Commission Expires

EE 052667 Commission No.

EXHIBIT "A" MAN-HOUR ESTIMATE FOR Pavement Rehabilitation & Replacement of Airfield Lighting of Taxilane Charlie West of 13-31 City Project No. 11749 ^{5/31/2012}

EXHIBIT NO. A TO FORM OF CONTRACT		Prof.	Engineer	CADD	Clerical/	Total	Γ	Unit		Labor
	Manager	Engineer	Analyst	Tech	Admin.	Hours		Cost		Cost
Kimley-Horn and Associates, Inc.	Dave	Sarah	Cody	Art	Sharda					
	\$225.00	\$125.00	\$110.00	\$95.00	\$65.00					
TASK DESCRIPTION - BASIC ENGINEERING										
Task 1- Predesign Services (One Month)							-		<u> </u>	
1 Attend and Participate in an Issues and Project Definition Meeting	4	4		1	1	10	\$	156.00	\$	1,560.00
2 Coordinate and Administer Early Subconsultant Services	2	1			1	4	\$	160.00		640.00
3 Field Review Project Site	3	3		2		8	\$	155.00		1,240.00
4 Review existing plans and data	1	4	4	10	1	20	\$	109.00		2,180.00
5 Define and List Design Criteria for Project		1			1	2	\$	95.00	\$	190.00
6 Define Field Survey Requirements and Obtain Surveys	1	2		2		5	\$	133.00	\$	665.00
7 Recover and restore base mapping of underground facilities from	·.	2		2		4	\$	110.00		440.00
8 Define Geotech Requirements and Obtain those investigations	1	2				3	\$	158.33		475.00
9 Develop preliminary horizontal layout	· · · · · · · · · · · · · · · · · · ·	2	2	6		10	\$	104.00	\$	1.040.00
10 Develop preliminary phasing plans		4	4	10		18	\$	105.00	\$	1,890.00
11 Identify Preliminary Construction Access, MOT and Staging Options		2	2	4		8	\$	106.25		850.00
12 Prepare an Order of Magnitude Opinion of Probable Construction Cost		2	8	-		10	\$	113.00		1,130.00
13 Design Team Meetings - 4 (Weekly)	1	4	4	4		13	\$	118.85		1,545.00
14 Meetings with City Staff -1 (Monthly)	4	2	· · ·	0		6	\$	191.67	\$	1,150.00
15 Quality Assurance Review	2	2		2		6	\$	148.33		890.00
16 Administration	4	1			2	7	\$	165.00		1,155.00
Subtotal	23	38	24	43	6	134	\$	127.16		17,040.00
Task 2- Conceptual Design (30% Submittal) (One Month)										
1 Prepare Base Mapping		0	6	10		16	\$	100.63	\$	1,610.00
2 Develop Geometry to 30% level	2	5	10	18		35	\$	111.00	\$	3,885.00
3 Prepare Pavement Design & Typical Sections		2	4	8		14	\$	103.57	\$	1,450.00
4 Develop Preliminary Grading Concept	2	8	8	16		34	\$	113.24	\$	3,850.00
5 Refine project phasing plan and define construction project limits by phase	2	6	4	10		22	\$	117.73	\$	2,590.00
6 Develop Construction Safety Plan - Conceptual		2	4	8		14	\$	103.57	\$	1,450.00
7 Conduct Design Team Meetings - 4 (Weekly)	1	4	4	4		13	\$	118.85	\$	1,545.00
8 Prepare Construction Plans to 30%	2	10	20	30		62	\$	108.87	\$	6,750.00
9 Prepare Outline Technical Specifications		1				1	\$	125.00	\$	125.00
10 Prepare Outline of Engineer's Report		1				1	\$	125.00		125.00
11 Prepare Order of Magnitude Opinion of Probable Cost		4	12			16	\$	113.75		1,820.00
12 Prepare Conceptual Construction Schedule		4	4	2		10	\$	113.00	_	1,130.00
13 Independent Quality Assurance Review	2	2	0	4		8	\$	135.00		1,080.00
14 Submit Plans to City for Review		1		2		3	\$	105.00		315.00
15 Administration	4	2			4	10	\$	141.00		1,410.00
16 Concept Design Meeting with City	4	2		0		6	\$	191.67		1,150.00
Subtotal	19	54	76	112	4	265	\$	114.28		30,285.00

EXHIBIT "A" MAN-HOUR ESTIMATE FOR Pavement Rehabilitation & Replacement of Airfield Lighting of Taxilane Charlie West of 13-31 City Project No. 11749 5/31/2012

EXHIBIT NO. A TO FORM OF CONTRACT	Project	Prof.	Engineer	CADD	Clerical/	Total	Unit	Labor
	Manager	Engineer	Analyst	Tech	Admin.	Hours	Cost	Cost
Kimley-Horn and Associates, Inc.	Dave	Sarah	Cody	Art	Sharda			
	\$225.00	\$125.00	\$110.00	\$95.00	\$65.00			
TASK DESCRIPTION - BASIC ENGINEERING								
Task 3 - Preliminary Design (60% Submittal) (Two Months)								
1 Prepare Taxilane Charlie and Connecting Taxiway Profiles		12	15	30		57	\$ 105.26	\$ 6,000.0
2 Finalize Pavement Design & Sections	1	6	0	4		11	\$ 123.18	\$ 1,355.0
3 Finalize Grading Design & Sections	6	10	10	18		44	\$ 122.95	
4 Develop Proposed Cross Sections for Pavements		6	12	20		38	\$ 104.47	\$ 3,970.0
5 Finalize Pavement Geometry		6	10	20		36	\$ 104.17	\$ 3,750.0
6 Finalize Demolition Limits		2	0	4		6	\$ 105.00	\$ 630.0
7 Develop Construction Phasing Plans to 60 %		12	16	30		58	\$ 105.34	\$ 6,110.0
8 Prepare Preliminary Pavement Marking Plans		4	8	18		30	\$ 103.00	\$ 3,090.0
9 Perform Quantity Take Off		6	20	10		36	\$ 108.33	\$ 3,900.0
10 Prepare Preliminary Opinion of Probable Construction Cost	2	10	20	4		36	\$ 118.89	\$ 4,280.0
11 Perform Quality Control Review	14	4	4	10		32	\$ 157.50	\$ 5,040.0
12 Prepare Preliminary Construction Safety Plan with Details and Notes		2	10	14		26	\$ 103.08	\$ 2,680.0
13 Design Team Meetings - 4 (Weekly)	2	4	4	4		14	\$ 126.43	\$ 1,770.0
14 Develop Construction Plans to 60%	4	40	50	90		184	\$ 108.42	\$ 19,950.0
15 Prepare Draft Engineering Report		4	14			18	\$ 113.33	\$ 2,040.0
16 Prepare Draft Technical Specifications	2	12	40			54	\$ 117.59	\$ 6,350.0
17 Submit Plans and Documents to City for Review		4		4		8	\$ 110.00	\$ 880.0
18 Design Meeting with City	4	2		0		6	\$ 191.67	
19 Administration	10	4			8	22	\$ 148.64	
Subtotal	45	150	233	280	8	716	\$ 114.00	\$ 81,625.0
Task 4 - Contract Document Preparation (One Month)								
1 Finalize Design Drawings	4	12	18	24		58	\$ 114.83	\$ 6,660.0
2 Finalize Technical Specifications	2	4	12		4	22	\$ 115.00	
3 Finalize Engineers Report		4	8		4	16	\$ 102.50	
4 Develop Bid Forms and Final Quantities		6	8	4	4	22	\$ 103.18	
5 Prepare Supplemental Provisions		4	4			8	\$ 117.50	\$ 940.0
6 Provide Quality Control review of the services being provided.	4	4	4	4		16	\$ 138.75	
7 Provide plans for the CITY to submit to FDOT.		2		1	1	4	\$ 102.50	
8 Administration	4	2			4	10	\$ 141.00	\$ 1,410.0
Subtotal	14	38	54	33	17	156	\$ 115.90	
Task 5 - CAD Standards Review (One week)								
1 Process CAD files to conform with CITY standards	1	2	0	34		37	\$ 100.14	\$ 3,705.0
2 Resubmit CAD drawings to CITY	1	0	, , , , , , , , , , , , , , , , , , ,	8		9	\$ 109.44	
Subtota	2	2	0	42	0	46	\$ 103.44 \$ 101.96	
		<u> </u>		42		-10	φ 101.90	4,090.0

EXHIBIT "A" MAN-HOUR ESTIMATE FOR Pavement Rehabilitation & Replacement of Airfield Lighting of Taxilane Charlie West of 13-31 City Project No. 11749 5/31/2012

EXHIBIT NO. A TO FORM OF CONTRACT	Project	Prof.	Engineer	CADD	Clerical/	Total	Unit	Labor
	Manager	Engineer	Analyst	Tech	Admin.	Hours	Cost	Cost
Kimley-Horn and Associates, Inc.	Dave	Sarah	Cody	Art	Sharda			
	\$225.00	\$125.00	\$110.00	\$95.00	\$65.00			
TASK DESCRIPTION - BASIC ENGINEERING								
Task 7 - Bidding Assistance								
1 Attend Pre-Bid Conference	4	4		2	0	10	\$ 159.00	\$ 1,590.00
2 Responses to Bidder's Questions	4	6	0	6	1	17	\$ 134.41	\$ 2,285.00
Subtotal	8	10	0	8	1	27	\$ 143.52	\$ 3,875.00
Raw Labor Subtotal	111	292	387	518	36	1,344	\$ 115.77	\$ 155,595.00

DIRECT EXPENSES	
A Postage, Express, Courier	\$600
B. CADD Computer Reimbursement	State
C. Plots	\$850
D. Prints-Plan Sheets	\$1,200
E. Printing-Reports and Specifications	\$1,200
TOTAL DIRECT EXPENSES	\$3,850.00
SUBCONSULTANT EXPENSES (Task 6)	·······
A. Specialty Subconsultants-Design	
Keith and Associates, Inc.	\$7,320.00
Tierra, Inc	\$13,325.00
Hillers Electrical Engineering, Inc.	\$11,570.00
TOTAL SUBCONSULTANT EXPENSES	\$32,215.00
TOTAL EXPENSES	\$36,065.00
	\$30,005.00
TOTAL PROJECT FEE	\$191,660.00



301 East Atlantic Boulevard, Pompano Beach, Florida 33060-6643 Tel: 954-788-3400 Fax; 954-788-3500

Revised July 16, 2012 May 18, 2012

Mr. David R. Bardt, P.E. Sr. Vice President Kimley- Horn and Associates, Inc. 1920 Wekiva Way Suite 200 West Palm Beach, FL 33411 561-840-0851 Direct 561-845-0665 Office

RE: Agreement for Professional Services Project Name: Fort Lauderdale Executive Airport –Taxiway Charlie Project Location: City of Fort Lauderdale, Florida Our Project/Proposal Number: 07202.04

Dear Mr. Bardt:

In accordance with your request and subsequent discussions between members of our association and yourself, this agreement between Keith & Associates, Inc. ("CONSULTANT"), and Kimley- Horn and Associates, Inc. ("CLIENT") for professional services is submitted for your consideration and approval. CONSULTANT will begin work after receipt of a fully executed copy of this Agreement.

I. PURPOSE OF AGREEMENT/PROJECT DESCRIPTION

The purpose of this Agreement is to outline the scope of services recommended by CONSULTANT and accepted by CLIENT, and to establish the contractual conditions between CONSULTANT and CLIENT with respect to the proposed services.

CONSULTANT is to provide professional services associated with the rehabilitation of a portion of Taxiway Charlie at Fort Lauderdale Executive Airport.

II. SCOPE OF SERVICES

Section 1 - Engineering Services

Not a part of this Agreement.

Section 2 - Planning Services

Not a part of this Agreement.

Section 3 - Surveying Services

Task 001 Topographic Survey

The Sub-Consultant will prepare a Topographic Survey within the limits as shown on the attached EXHIBIT and provide following:

- Set adequate project horizontal control and references
- Set project benchmarks
- Perform a topographic survey within the survey limits to locate all above-ground features and all
- evidence of below-ground features
- Obtain elevations within the survey limits using a 20-foot grid
- Map the survey and provide files electronically and in hardcopy
- Provide surfaces and contours

All surveying services shall conform to the applicable requirements of Rule 5J-17 of the Florida Administrative Code. The drawing will adhere to the City of Fort Lauderdale's CADD standards. Horizontal datum for the project will be North American Datum of 1983 with the National Spatial Reference System adjustment of 2007 applied (NAD83/NSRS2007). Vertical Datum for the project will be North American Vertical Datum of 1988 (NAVD 1988). Deliverables will include signed and sealed copies and a CD.

The Lump Sum Fee for this	Task is	\$ 7,320.00
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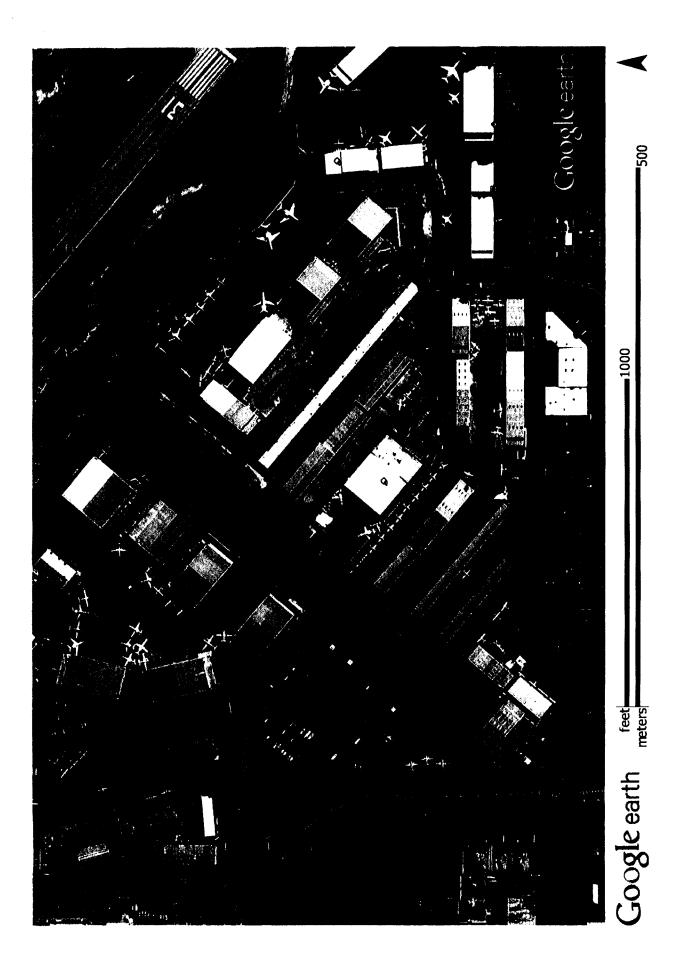
Duty Code	Hours	Rate Table	Total
01-Admin. Assistant		\$50.00	\$0.00
15-Technician	32	\$65.00	\$2,080.00
16-Senior Technician		\$75.00	\$0.00
60-Professional Surveyor		\$105.00	\$0.00
70-Principal		\$150.00	\$0.00
78-Field Crew Supervisor		\$90.00	\$0.00
80-Senior Professional Surveyor	12	\$120.00	\$1,440.00
81-2-Person Field Crew	40	\$95.00	\$3,800.00
82-3-Person Field Crew		\$115.00	\$0.00
83-4-Person Field Crew		\$135.00	\$0.00
TOTAL			\$7,320.00

Section 4 - Additional Services

The undertaking by CONSULTANT to perform professional services defined within this Agreement extends only to those services specifically described herein. If upon request of CLIENT, CONSULTANT agrees to perform additional services hereunder, CLIENT shall be obligated to pay CONSULTANT for the performance of such additional services an amount (in addition to all other amounts payable under this Agreement) based on an hourly fee in accordance with CONSULTANT'S current professional fee schedule, plus reimbursable expenses as incurred by CONSULTANT, unless a lump sum addendum to Agreement is executed by the parties to this Agreement which addresses the additional services.

Additional services shall include revisions to work previously performed that are required due to a change in the data or criteria furnished to CONSULTANT, a change in the scope or concept of the project initiated by CLIENT, or services that are required by changes in the requirements of public agencies after work under this Agreement has commenced.

If the preceding scope of services includes public agency permitting, our quoted fees/hours include services to respond to the agency's first RAI (Request for Additional Information). Additional agency requests or requirements shall be considered an increase to our scope of services.





June 1, 2012

Kimley-Horn & Associates, Inc. 1920 Wekiva Way, Suite 200 West Palm Beach, FL 33411

Attention: Ms. Eileen M. Velez-Vega, P.E.

Re: Proposal for Geotechnical Services Proposed Taxiway Charlie West Rehabilitation Project Ft. Lauderdale Executive Airport Ft. Lauderdale, Florida TSF Proposal No.: 1206-191

Dear Eileen:

As requested, **Tierra South Florida**, Inc. (TSF) is pleased to submit this proposal for the abovereferenced project. The proposal is based on e-mail from Ms. Eileen M. Velez-Vega, P.E. dated May 31st, 2012.

We understand that the improvement consist of rehabilitation of Taxiway Charlie. The work will consist of milling and resurfacing Taxiways Charlie West.

This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

PROPOSED SCOPE OF WORK

All work performed by TSF will be in general accordance with Advisory Circular AC 150. As requested, based on our understanding of the project, we have been requested to obtain 8 (eight) pavement cores and drill a total of eight (8) Standard Penetration Test (SPT) borings to a depth of 10 feet below existing grade. Additionally, we propose to perform 6 field CBR tests (Kessler Method).

Kimley-Horn & Associates, Inc. TSF Proposal: 1206-191 Page 2

The following laboratory testing will be performed on selected samples:

• Extraction and Gradation

Borings and test locations will be approximately located in the field by our personnel based on information provided to us. Elevations at boring locations can be interpreted from topographic plans if furnished by others.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. We believe that significant coordination will likely be required to perform the field operations and the work will be conducted at night time to avoid disturbance to patrons.

Upon completion of the field exploration, laboratory testing will be performed on selected samples. A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the exploration data, laboratory data, depth to ground water and estimated depth and elevation (NGVD) to seasonal high ground water and a discussion of the site and subsurface conditions and pavement recommendation.

ESTIMATED FEES

It is proposed that the fee for the performance of the services outlined above is determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to Tierra's General Conditions enclosed herewith and incorporated into this proposal. On the basis of the proposed quantities, it is estimated that the total fee will be approximately **\$13,325** for night time work.

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated fee previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consisting with good engineering practice. Kimley-Horn & Associates, Inc. TSF Proposal: 1206-191 Page 3

SCHEDULE AND AUTHORIZATION

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and fieldwork will take about 4 days to complete. The written report can be submitted in within three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TERRA SOUTH FLORIDA, INC.

Francois Thomas, P.E. Principal Engineer

Attachments: 1. Fee Estimate

AUTHORIZED BY:	INVOICE TO:
Name:	Firm:
Title:	Name:
Date:	Address:

TIERRA SOUTH FLORIDA, INC 2009/2010 STARDARD UNIT FEE SCHEDULE

	NIGH	T RATES				
FIELD INVESTIGATION	Unit	# of Units		Unit Price	Total	
Mobilization of Men and Equipment						
Truck-Mounted Equipment	Trip	1	\$	350.00	\$	350.00
Specialized ATV/Mudbug	Trip	0	\$	720.00	\$	0.00
Support Vehicle	Trip	0	\$	150.00	\$	0.00
Standard Penetration Test Borings (By Truck-Mounted Equipment)						
Land: 0 - 50 ft depth	L.F.	80	\$	18.00	\$	1,440.00
50 - 100 ft depth	L.F.	0	ŝ	21.00	\$	0.00
Grout-Seal Boreholes (By Truck-Mounted Equipment)						
Land: 0 - 50 fl depth	L.F.	80	\$	0.70	•	
50 - 100 ft depth	L.F.	0	\$	6.75 8.25	\$ \$	540.00
	2.7 .	0	•	0.25	÷	0.00
Field Permeability Tests	Test	3	\$	350.00	\$	1,050.00
Pavement Cores, Asphait	Each	16	\$	225.00	\$	3,600.00
Pavement Cores, Concrete	Each	0	\$	225,00	\$	0.00
LABORATORY TESTING						
Visual Examination/Stratify	Per Hour	3	\$	100.00	\$	300.00
Natural Moisture Content Tests	Test	4	\$	10.00	\$	40.00
Grain-Size Analysis - Full Gradation	Test	3	\$	65.00	\$	195.00
Grain-Size Analysis - Single Sieve Organic Content Tests	Test	0	\$	35.00	\$	0.00
Atterberg Limit Tests	Test Test	0	\$	35.00	\$	0.00
Líquid Limit Tests (Only)		0	\$	75.00	\$	0.00
Plastic Limit Tests (Only)	Test	0	\$	52.00	\$	0.00
	Test	0	\$	33.50	\$	0.00
Field CBR	Test	0	\$	600.00	\$	0.00
Grain-Size with Hydrometer	Test	0	\$	115.00	\$	0.00
Proctor Test a) Modified	Test	0	\$	108.00	\$	0.00
b) Standard	Test	0	\$	102.00	\$	0.00
Bitumen Extraction	Test	4	\$	150.00	\$	600.00
Bitumen Gradation	Test	4	\$	150.00	\$	600.00
ENGINEERING/COORDINATION/MANAGEM	AENT					
Project Manager	Hour	4	\$	165.00	\$	660.00
Principal Engineer	Hour	0	\$	150.00	\$	0.00
Senior Engineer	Hour	6	\$	125.00	\$	750.00
Project Engineer	Hour	20	\$	100.00	\$	2,000.00
Senior Technician	Hour	12	\$	75.00	\$	900,00
CADD	Hour	4	\$	75.00	\$	300.00
init rates provided are those for both public and p	rivate sectors.				\$	13,325.00

The unit rates provided are those for both public and private sectors.

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Raj Krishnasamy, P.E Principal Seotechnical Engineer

Tierra South Florida's General Conditions

- 1. SCOPE OF WORK: Work means the specific geotechnical, antifytical, testing or other service to be performed by Tierra South Florida, Inc. (TSF) as set forth in TSF's proposal, Client's acceptance of the scope of work and these General Conditions. Additional work ordered by Client shall also be subject to these General Conditions. "Client' refers to the person or business entity ordering the work to be done by TSF. Client shall easily and work ordered by Client shall also be subject to these General Conditions. "Client' refers to the person or business entity ordering the work to be done by TSF. Client shall easily and work ordered by Client shall also be subject to these General Conditions. "Client' refers to the person or business entity ordering the work to be done by TSF." Strongerst, Client's acceptance of TSF's proposal, and these General Conditions. The ordering of work from TSF, or the reliance on any of TSF's area of the terms of TSF's proposal and these General Conditions, regardless of the terms of any subsequently issued document.
- 2. RIGHT-OR-ENTRY -The client will provide right-of-entry for TSF and all necessary equipment in order to complete the work. While TSP will take all reasonable procautions to minimize any damage to the property, it is understood by Client thet in the normal course of work some damage may occur, the correction of which is not part of this agreement.
- 3. DAMAGE TO EXISTING MAN-MADE OBJECTS -The Client, will provide the location of all underground utilities or obstructions to TSF who, in the prosecution of their work, will take all reasonable precautions to avoid damage or injury to any such subterranean structure or utility. The Owner agrees to hold TSF harmless for any damages to subterranean structures which are not called to TSF attention and correctly shown on the plana formithed and will reinsburse TSF for any expenses in connection with any claims or suits including reasonable attorcy fees at the trial and appellet levels.
- 4. UN-PLACE MATERIALS TESTING -TSF will not be responsible for repair or damage to portions of structures designated for in-place materials testing. Repairs can be made for aesthetic reasons if requested in advance of the work to be performed. The cost for labor and materials would be charged.
- 5. SAMPLE RETENTION -TSF will retain all soil and rock samples obtained for geotechnical explorations for 30 days. Samples subjected to Construction Materials and Laboratory testing are disposed of subsequent to testing. Further storage or transfer of samples can be made at Client's expense upon written authorization.
- 6. DEFINITION OF RESPONSIBILITY (OBSERVATION SERVICES) The presence of our field representative will be for the purpose of providing observation and field tealing. Our work does not include supervision or direction of the actual work of the constructor, his employees or agents. The contractor for this project should be so advised.
 - 6.1. The Contractor should also be informed that neither the presence of our field representative or the observation and testing by our firm shall excuse him in any way for defects discovered in his work. It is understood that TSP will not be responsible for the Contractor's job or site safety on his project. The will be the sole responsibility of the contractor.
- STANDARD OF CARE -Service performed by TSF under this Agreement will be conducted in a manner consistant with that level of care and skill ordinarily exercised by members of the
 profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.
 - 7.1. Client recognizes that subsurface conditions may vary from those encountered at the tocation where borings, surveys or explorations are made by TSF and that the date, interpretations and recommendations of TSF are based solely on the information available to it. TSF shall not be responsible for the interpretation by others of information developed.
- 8. ORAL AGREEMENTS -No oral agreement, guarantee, promise, representation or warranty shall be binding.
- 9. OWNERSHIP OF DOCUMENTS -AH reports, boring logs, field data and notes, laboratory test data, calculations, estimates and other documents prepared by TSF, as instruments of service, shall remain the property of TSF until final payment is received and a letter of copyright transfer been executed.
- 10. BASIS OF PAYMENT -Payment is due within 30 days of date of invoice. Payments not made when due shall bear interest at eighteen (18) percent assume or at the maximum rate allowed by law from the date of the invoice until same is paid.
 - 10.1. If the Client fails to make any payment due to TSF for services and/or expanses within 60 days of date of invoice, TSF may, after giving seven days' written notice to Client, suspend services until all constanding amounts have been paid to TSF in fail. Parther, TSF may, in addition to withholding services, or singularly, withhold reports, plans and other documents not paid in fail by the Client. In the event that final payment for completed work is not made, TSF shall request that all copyrighted documents which were submitted to client be cetarned and all information used in project plans be removed from project documents.
 - 10.2. In the event it is ascessary to take legal action to effect collection, whether or not liftgation is commenced, the Client agrees to reimburse TSF for expenses in connection with any claims or suits, including reasonable supravy's fees, including but not limited to the trial and appellate levels.
 - 10.3. This contract shall be governed by the laws of the State of Florida.
- 11. CONSTRUCTION REVIEW TSF cannot accept responsibility for any design work unless the work includes services for construction review to determine whether or not the work performed is in substantial compliance with TSF's conclusions and recommendations.
- 12. INDEMNIFICATION -TSF agrees to hold harmloss and indemnify Client from and against liability arising out of TSF's negligent performance of the work. Client agrees to indemnify and hold TSF harmless from all liability including all costs, attorney's fees and expenses of defense for any claims by any other person or corporation which may arise out of the performance or breach of this contract for which TSF was not solely negligent.
- 13. LIMITATION OF LIABILITY -The Client/Owner agrees to limit TSF fiability for negligent professional acts, errors or omissions, such that the total aggregate liability of TSF shall not exceed \$50,000 or the total fee for the services rendered on this project; whichever is greater. The Owner further agrees to require the contractor and his subcontractors a similar limitation of fiability suffered by the contractor or the subcontractors arising from TSF negligent professional acts, errors or omissions.
 - 13.1. If Client prefers to have higher limits on professional liability, TSF agrees to increase the limits up to a maximum of \$1,000,000 upon Client's written request at the time of accepting our proposal provided that Client agrees to pay an additional consideration of \$ percent of our total fee. The additional charge for the higher liability kinits is because of the greater risk assumed and is not strictly a charge for additional professional liability insurance.
- 14. INSURANCE, -TSF regresents and warrants that it and its agents, staff and consultants employed by it are protected by Worker's Compensation insurance and Employer's Linbility Insurance in conformance with applicable state laws. TSF has such coverage under public liability and property damage insurance policies that TSF deems to be adequate. A Certificate of Insurance can be supplied evidencing such coverage upon request.
 - 14.1. Within the limits and conditions of such insurance, TSF agrees to indomnify and save client harmless from and against any loss, damage or liability arising from any negligent acts by TSF, its agrents, staff and consultants employed by it. TSF shall not be responsible for any loss, damage or liability arising from any negligent acts by TSF, ball not be responsible for any loss, damage or liability arising from any acts by clients, its frank on the amounts, limits and considerations of such lasurance. TSF shall not be responsible for any loss, damage or liability arising from any acts by clients, its agents, staff and other consultants employed by it.
 - 14.2. Cost of the above coverage is included in our quoted fees. If additional coverage or increased limits of liability are required, TSP will endeavor to obtain the requested innurance and charge separately for costa associated with additional coverage or increased limits.
- IS. TERMINATION -This agreement may be terminated by either party upon seven days written notice in the event of substantial failure by the other party to perform in accordance with the terms thereof. Such termination shall not be effective if the substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, TSF shall be paid for services performed to the termination notice date plus reasonable termination expenses.
 - 15.1. In the event of termination or suspension for more than three months, prior to completion of all reports contemplated by this Agreement, TSF may complete a report on the services performed to the date of notice of termination or suspension. The expenses of termination or suspension shall include all direct costs for TSP in completing such analyses, records and resports.
- 16. CLIENT'S OBLIGATION TO NOTIFY TSP Client represents and warrants that it has advised TSP of any known or suspected hazardous materials or coadilions, utility lines and pollutants at any site at which TSP is to do work hereunder, and unless TSP has assumed in writing the responsibility of locating ukbaurface objects, structures, lines or condults, Client agrees to defand, indemnify and save TSP harmless from all claims, puits, losses, costs and expenses, including reasonable attorney's fees as a result of personal hybring, death or property damage occurring with respect to TSP's performance of its work and seculary to or caused by contact with subsurface or latent objects, structures, lines or condults where the actual or potential presence and location thereof were not revealed to TSP by Client.
- 17. HAZARDOUS MATERIALS This agreement shall not be interpreted as requiring TSF to assume the status of an owner, operator, generator, storer, transporter, treasporter, tr

Initial

HEEE

HILLERS ELECTRICAL ENGINEERING, INC.

June 21, 2012

Mr. David Bardt, P.E. Kimley-Horn & Associates, Inc. 4431 Embarcadero Drive West Palm Beach, FL. 33407

Subject: Electrical Design Services Fee Proposal for the City of Fort Lauderdale Executive Airport (City) Taxiway "C" Electrical, Edge Lighting and Signage Project. Project Length 1300 ft.

Dear Dave:

Hillers Electrical Engineering, Inc. (HEE) is pleased to provide Kimley-Horn & Associates, Inc. (KH) an electrical design services fee proposal for the Executive Airport Taxiway "C" Relocation Electrical, Lighting and Signage Project.

The following items are included in our scope:

- Includes all City and KH design coordination meetings.
- Includes as-build reviews & field verifications and assessment of existing conditions.
- Includes all electrical calculations and regulator load testing.
- Includes replacement of existing airfield electrical systems for Taxiway C.
- Includes airfield lighting electrical plans reflecting all cable & conduit systems, edge lighting installations, electrical for signage, airfield vault modification, ductbank systems and installation details for all electrical & lighting equipment installations.
- KH shall provide signage layouts & signage schedule to HEE accordingly.
- KH shall provide all base drawings to HEE on AutoCAD 2010.
- HEE shall provide electrical design to KH electronically for 30%, 60%, 100% reviews, bid and construction phases.
- Includes Engineers Electrical Report.
- HEE shall provide all FAA specifications electrical bid line items and cost estimates.
- KH shall provide all printing of Plans & Specifications for reviews, bid phases and construction phases to the City.
- Provide Bid Package.
- Does not include Construction services.

Our proposed electrical design fee is:

<u>\$11,570.</u>

Sincerely,

Thomas Doran, Vice-President

FT. LAUDERDALE EXECUTIVE AIRPORT

City of Fort Lauderdale, Florida

TAXILANE "C" Design Services

Task Description	Hillers Electrical Engineering, Inc. Base Package							
2/16/20	10 Project	Prof.	Proj.	CADD		Clerical	Total	Total
	Manager	Engineer	Engineer			Support	B&Alt	Base
Direct Labor Rat	es \$115.00	\$100.00	\$95.00	\$80.00		\$45.00	Hours	\$\$
Construction Phase Services								
							0	\$0.00
Design coordination meeting City & KHA Design Team	1	2	2			1	6	\$550.00
On-Site Verifications & As Built Reviews		1	4			1	6	\$525.00
Electrical Calculations		8				1	9	\$845.00
Taxiway Lighting Plans 30, 60, 100%	2	12	24	24		1	63	\$5,675.00
Installation & Layout Details		1	1	2		1	5	\$400.00
Specifications & Bid Items & Cost Estimates	1	16	4			12	33	\$2,635.00
Bid & Award	1	4	4			1	10	\$940.00
							0	\$0.00
							0	\$0.00
							0	\$0.00
							0	\$0.00
Total	5	44	39	26	0	18	132	\$11,570.00
Total Labor Costs:	\$575.00	\$4,400,00	\$3,705.00	\$2,080.00	\$0.00	\$810.00		\$11,570.00

Prepared By: Hillers Electrical Engineering, Inc. 6-21-12